



Sunday, 29 June 2014

1:30–5 pmRegistration
5:30–7 pmWelcome Reception

Monday, 30 June 2014

8:30–8:40 am Opening and Welcome

Session 1: Introduction

Session Chairmen: Michael Wilt and Wayne Pennington

8:40–9:10 am **Is 4D Seismic Enough? A Reservoir Engineering Perspective** *Keynote, Colin MacBeth, Heriot-Watt U*
9:10–9:40 am **Update on the SEG Advance Modeling Corporation (SEAM) Project for Interpreting Life of Field** *William Lee Abriel, Chevron*
9:40–10:10 am **Two Decades of Geophysical Monitoring: Evolution and Revolutions** *Wayne D. Pennington, Michigan Technological U*
10:10–10:40 am[Coffee Break](#)
10:40–11:10 am **Engineering Electromagnetic Contrast Agents for Waterflood and Fracture Imaging** *Alex Athey, U of Texas*
11:10–11:40 am **Time-lapse, Multicomponent Seismic Monitoring of Delhi Field, LA** *Thomas L. Davis, Colorado School of Mines*
11:40 am–12 pm Discussion
[Break until evening session](#)

Session 2: Characterization

Session Chairs: Carlos Torres-Verdin

6–6:10 pm Opening
6:10–6:30 pm Introductions by Poster Speakers
• **Facies Analysis and Permeability Prediction from Well Log Data using the Multivariate Analysis Methods and Neural Network in the Lower Triassic Reservoirs of the Hassi R'Mel Field (Algeria)** *Baouche Rafic, U of Boumerdes*
• **Bayesian Inversion for Gas Saturation Using Frequency-dependent Rock Physics Models** *Xiaoyang Wu, British Geological Survey*
• **The Application of Diffraction Signal in Fractured Reservoir** *Mengcheng Shu, Chinese Academy of Sciences*
6:30–7:20 pm Presentations from Poster Boards
7:20–7:40 pm Introductions by Poster Speakers
• **Amplitude Versus Offset (AVO) Modeling as a Tool for Seismic Reservoir Characterization** *Mwongyera Hillary, Makerere U*
• **Passive Seismic Imaging of Structural Features and Temporal Changes in a Geothermal Reservoir** *Roland Gritto, Array Information Technology*
• **Improved Seismic Imaging by Attenuation Compensation: A Case Study** *Tieyuan Zhu, Stanford U*
7:40–8:30 pm Presentations from Poster Boards
8:30–9 pm Discussion

Tuesday, 1 July 2014

Session 3: Integration

Session Chairs: William Lee Abriel and Carlos Torres-Verdin

8:30–8:35 am Opening
8:35–9:05 am **Introducing Production Constraint to Stabilize Inversion Results** *Pierre Thore, Total*
9:05–9:35 am **Life of Field Management and the Role of Synthetic Modeling** *James Rector, UC-Berkeley*
9:35–10:05 am **Joint Inversion of Time-lapse Gravity and Production Data for Reservoir Permeability Distribution** *Yaoguo Li, Colorado School of Mines*
[10:05–10:30 am Coffee Break](#)
10:30–11 am **Time-lapse Borehole Gravity for CO₂ Monitoring** *Cranfield Kevin Dodds, BP*
11–11:30 am **New 3-Component Fiber Optic Sensor for Improved Reservoir Characterization/Monitoring** *James K. Anderson, US Seismic Systems, Inc.*
11:30 am–12 pm Discussion
[Break until evening session](#)

Session 4: Monitoring

Session Chair: Tom Daley

6–6:10 pm Opening
6:10–6:30 pm Introductions by Poster Speakers
• **Monitoring Reservoir Resistivity Changes Due to Waterflooding: A Crosswell EM Case History from the Middle East** *Michael Wilt, Schlumberger Technology Corporation*
• **Real-time Reservoir Characterization and Monitoring with Wireless Sensor Networks** *WenZhan Song, Georgia State U*
• **Time-lapse Studies using Ultra Stable Seismic Source for EOR, CCS and Reservoirs** *Junzo Kasahara, Kawasaki Geological Engineering Co. Ltd.*
6:30-7:20 pm Presentations from Poster Boards
7:20-7:40 pm Introductions by Poster Speakers
• **Seismic Attenuation: A New Time Lapse Seismic Attribute?** *Christian Hubans, Total SA*
• **Improved Reservoir Characterization and Monitoring of the Long Lake Heavy Oil SAGD Project using 4D Multicomponent Seismic Data** *Kelsey Schiltz, Schlumberger*
• **Reservoir monitoring by Integration of Gravity, Seismic and Reservoir Property Data** *Richard A. Krahenbuhl, Colorado School of Mines*
7:40-8:30 pm Presentations from Poster Boards
8:30-9 pm Discussion

Wednesday, 2 July 2014

Session 5: Unconventionals

Session Chairs: Thomas L. Davis and Dave Alumbaugh

8:30–8:35 am Opening
8:35–9:05 am **Anisotropic Rocky Physics in Reservoir Characterization** *Leon Thomsen, Delta Geophysics*
9:05–9:35 am **Advanced Experiments and Imaging Techniques for the Rock Physics Characterization of Shales** *Tiziana Vanorio, Stanford U*
9:35–10:05 am **Pore Pressure Prediction in Unconventional Reservoirs** *Tom R. Bratton, Colorado School of Mines*
10:05–10:20 am Poster Session, Introduction of Posters
• **Joint PP-PS Inversion using Anisotropically Processed Converted Wave Seismic for Fracture Characterization** *Tyler MacFarlane, Colorado School of Mines*
• **Composite Focal Mechanism Solutions of Microseismic Data Monitoring Two Horizontal Completions in the Montney Shale** *Matthew Lee, Colorado School of Mines*
• **Modular Borehole Monitoring Permanent Multi-sensor Completion: Design and Deployment** *Kevin Dodds, BP; Tom Daley, Lawrence Berkeley National Laboratory*
10:20–11 am Presentations from Poster Boards
11:–11:30 am **A Probabilistic Approach to In-place Volume Estimation with Application to an Unconventional Reservoir** *Emmanuel Schnetzler, NEOS Geosolutions, Inc.*
11:30 am–12 pm ... **The Value of Frac Diagnostic Measurement and the Importance of Multidisciplinary Teams** *Steven Wilson, Halliburton*
12–12:30 pm Discussion
[12:30–1:30 pm Break for Lunch](#)

Session 6: Nonseismics
Session Chairs: Dave Alumbaugh and Michael Wilt
1:30–1:35 pm Opening
1:35–2:05 pm **Log Resistivity Measuring Devices Compared to S-waves from a Vertical-Force Source: VSV/VSH Ratio in Identification of Fracture Sweet Spots in Densly Fractured Reservoirs** *John M. Robinson, RARE Technology Geophysical Research and Development*
2:05–2:35 pm **New Technology and Methods for Extending EM Surveys to Reservoir Depth** *Andrew D. Hibbs, GroundMetrics, Inc.*
2:35–3:05 pm **Non-seismic Characterization of Basement Architecture and Composition and Its Relationship to Hydrocarbon Production** *Maria (Sole) Velasco, NEOS GeoSolutions, Inc.*
[3:05–3:35 pm Coffee Break](#)
3:35–4:05 pm **Feasibility of Monitoring Water Floods by Borehole Gravimeters** *Manik Talwani, Rice U*
4:05–4:35 pm **Using Electromagnetics to Delineate the Distribution of Proppant in a Hydraulically Fractured Reservoir** *Lindsey Heagy, Geophysical Inversion Facility, UBC*
4:35–5 pm Discussion
[6:30–9 pm Dinner](#)

Thursday, 3 July 2014

Session 7: Permanent Sensors

Session Chairs: Mark Houston and Kevin Dodds

8:30–8:35 am Opening
8:35–9:05 am **Are We Sensing Enough?** *Keynote, Eric de Graaff, CGG*
9:05–9:35 am **Impact of High Quality Multiple Time-lapse OBN on Mars Field in GoM** *Hesham Ebaid, Shell Exploration Production Company*
9:35–0:05 am **Continuous Active-Source Seismic Monitoring (CASSM)—Applications to Crosswell Reservoir Monitoring** *Thomas M. Daley, Lawrence Berkeley National Laboratory*
[10:05–10:30 am Coffee Break](#)
10:30–11 am **Atlantis Ocean Bottom Nodes Time-Lapse Observations** *Jean-Paul van Gestel, BP Exploration & Production*
11–11:30 am **Fiber Optic Seismic Vector** *Bjorn N.P. Paulsson, Paulsson, Inc.*
11:30 am–12 pm ... Discussion
[End of Forum](#)